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Fax Cover Sheet

Date: 13 Feb 2003 From: Caridad M. Everhart To: Attorney Sharan Islam Art Unit: 2825 Application/Control Number: 09/675,220 Phone No.: 703-308-3455 Fax No.: 212-940-8776 **Return Fax No.:** 703-872-9318 Voice No.: (212) 940-8800 CC: Re: Per Your Request For Review **For Reply** Urgent **For Comment**

Comments:

Number of pages 8 including this page

STATEMENT OF CONFIDENTIALITY

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Assistant Commissioner for Patents Washington, DC 20231

	09/675,220		NAKANO ET AL	-
Interview Summary	Examin r		Art Unit	
	Caridad M. Everh	nart	2825	
All participants (applicant, applicant's representative, PTO	personnel):			
(1) <u>Caridad M. Everhart</u> .	(3)			
(2) Office of Attorney Sharan Islam.	(4)			
Date of Interview: 13 February 2003.				
Type: a)⊠ Telephonic b)□ Video Conference c)□ Personal [copy given to: 1)□ applicant	2) applicant's	representativ	e]	
Exhibit shown or demonstration conducted: d) Yes If Yes, brief description:	e)⊡ No.			
Claim(s) discussed: <u>none</u> .				
Identification of prior art discussed:				
Agreement with respect to the claims f) was reached. g) was not reached. h) N/A.				
Substance of Interview including description of the general reached, or any other comments: <u>Applicant's representation</u>	al nature of what v ive requested a co	vas agreed to opy of the las	if an agreemen t Office Action to	it was o be faxed .
(A fuller description, if necessary, and a copy of the amen allowable, if available, must be attached. Also, where no allowable is available, a summary thereof must be attached	copy of the amen	examiner ag dments that v	reed would rend vould render the	der the claims e claims
i) It is not necessary for applicant to provide a schecked).	separate record of	the substand	ce of the intervie	ew(if box is
Unless the paragraph above has been checked, THE FOI MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW action has already been filed, APPLICANT IS GIVEN ON STATEMENT OF THE SUBSTANCE OF THE INTERVIEW reverse side or on attached sheet.	W. (See MPEP S∘ E MONTH FROM	ection 713.04 THIS INTER	·). If a reply to the VIEW DATE TO	ne last Office D FILE A
Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.	_ Ex	kaminer's sig	nature, if require	 ed

Application No.

Applicant(s)

<u> </u>		Application No.	Applicant(s)		
	Supplemental. Office Action Summary	09/675,220	NAKANO ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Caridad M. Everhart	2825		
eriod for	The MAILING DATE of this communication a Reply				
THE M - Extens after S - If the I - If NO - Failur	ORTENED STATUTORY PERIOD FOR REF AILING DATE OF THIS COMMUNICATION sions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a r period for reply is specified above, the maximum statutory peri- e to reply within the set or extended period for reply will, by sta- toply received by the Office later than three months after the ma- d patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a represent within the statutory minimum of thirty od will apply and will expire SIX (6) MONT	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).		
1) 🖾	Responsive to communication(s) filed on 9	<u>9-17-02</u> .			
2a)⊠	This action is FINAL 2b)	This action is non-final.	ion is non-final.		
3)□ Dispositi	Since this application is in condition for allo closed in accordance with the practice und on of Claims	ier Ex parte Quayle, 1935 C.E	ters, prosecution as to the ments is). 11, 453 O.G. 213.		
4)🖾	Claim(s) 1-12 and 14-21 is/are pending in	the application.			
	4a) Of the above claim(s) <u>14,18 and 19</u> is/a	re withdrawn from considerati	on.		
5)	Claim(s) is/are allowed.				
6)⊠	Claim(s) 1-12 and 15-21 is/are rejected.				
7)🖂	Claim(s) is/are objected to.				
8)[]	Claim(s) are subject to restriction ar	nd/or election requirement.			
	ion Papers				
9)[The specification is objected to by the Exan	niner.	he Everiner		
10)	The drawing(s) filed on is/are: a) a	ccepted or b) objected to by t	ne Examiner.		
	Applicant may not request that any objection	to the drawing(s) be neid in abey	licapproved by the Examiner		
11)	The proposed drawing correction filed on	is: a) approved b) o	iisappioved by the Examine.		
	If approved, corrected drawings are required				
	The oath or declaration is objected to by the	e Examinei.			
Priority	under 35 U.S.C. §§ 119 and 120		s 440(a) (d) or (f)		
	Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C.	3 (19(a)-(d) or (i).		
a)⊠ All b)□ Some * c)□ None of:				
	1. Certified copies of the priority documents have been received.				
	2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage				
*	application from the Internation	a list of the certified copies no	t received.		
14)	Acknowledgment is made of a claim for dor	mestic priority under 35 U.S.C	. § 119(e) (to a provisional application)		
1	a) The translation of the foreign languag Acknowledgment is made of a claim for do	e provisional application has I	been received.		
Attachme					
2\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO-94 ormation Disclosure Statement(<u>s)</u> (PTO-1449) Paper N	18) 5) Notice o	v Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)		
C Potent on	d Trademark Office	E - Action Cummary	Part of Paper No. 6		

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Supplemental Action

This action supercedes the previous Office Action mailed 11-27-02. This action is in response to a telephone interview with applicant's representative in which applicant's representative indicated that claim 21 had not been included in the Office Action Summary and in the Office Action.

The indicated allowability of claim 17 is withdrawn in view of the prior art of record. Claim 17 should have been included in the rejection of claim 11.

Newly submitted claims 18, and 19 and amended claim 14 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: The claims are drawn to an apparatus which could be used to carry out other and materially different processes such as heating a substrate to a given temperature and maintaining that temperature as a step in a process.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 14, 18, and 19 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claims 2, 12, and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The use of the word "predetermined" renders the claim indefinite because the word predermined reads on a nebulous mental step conducted prior to the manipulative steps of the claimed invention, hence rendering the present process claims unclear in meaning and scope.

Claim 12 fails to further limit claim 1 upon which it depends, as no further process steps are recited and no further process limitations are recited.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 2, 9, and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Anderson.

The reasons are as stated in paper No. 3.

Applicant has argued that Anderson does not teach determining a set of power ratios, but rather uses an empirically derived points which are entered by the operator.

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This argument is respectfully found to be unpersuasive because claim 1 recites "determining a set of power ratios", and it is believed that Anderson discloses the step of determining a set of power ratios(col. 8, lines 3-15), which reads on the claim language. Anderson teaches a determining step and a controlling step.

It seems that Anderson also teaches using the target temperature as a reference(col. 7, lines 63-67).

Claims 3-8,10, 11, and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson as applied to claim 1 above, and further in view of Halpin, et al. (US 6,113,702).

The reasons are as stated in paper No. 3.

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In addition, Anderson discloses the detecting and heating of central portions and peripheral portions of the wafer independently (col., 7, lines 11-24 and 33-37). The disclosure made by Anderson encompasses that the temperatures may be different(col. 9, lines 5-10 and 32-35).

Applicant's arguments are respectfully found to be unpersuasive primarily because it is considered within the ordinary skill in the art to calculate the power ratios with the temperature measurements made by Anderson in view of Halpin. With respect to claim 11 and the placement of temperature detection devices, Halpin discloses temperature sensing at the center and near the periphery of the wafer(col. 8, lines 33-48).

With respect to the combination of Anderson and Halpin, it is believed that the support taught by Halpin would have been within the ordinary skill in the art to combine

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with Anderson, as Anderson is silent with respect to the details of the wafer support, so that one of ordinary skill in the art would have been motivated to have used any support such as that disclosed by Halpin which provides good temperature control. With respect to the independent control of the temperatures in two portions of the substrate, Anderson discloses control of the temperatures in two portions of the substrate(claim 10).

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caridad M. Everhart whose telephone number is 703-

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308-3455. The examiner can normally be reached on Monday through Fridays 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on 703-308-1323. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

CARIDAD EVERHART PRIMARY EXAMINER

C. Everhart February 13, 2003